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## **CLAIMS**

- 1. A method of producing a polyurethane foam sheet, comprising the steps of applying a liquid mixture, obtained by mixing together a heated and melted hot melt urethane prepolymer (A) containing isocyanate groups at molecular terminals, and a compound (B) containing at least 2 active hydrogen atom-containing groups, onto a substrate in a sheet-like manner, and water foaming said liquid mixture by bringing said sheet-like liquid mixture into contact with water vapor.
- 2. A method of producing a polyurethane foam sheet, comprising the steps of introducing a liquid mixture, obtained by mixing together a heated and melted hot melt urethane prepolymer (A) containing isocyanate groups at molecular terminals, and a compound (B) containing at least 2 active hydrogen atom-containing groups, into a space between a first releasable substrate and a second releasable substrate to form a sheet-like product in a continuous manner, and water foaming said sheet-like product sandwiched between said first releasable substrate and said second releasable substrate by bringing either one surface or both surfaces of said releasable substrates into contact with water vapor.
- 3. A method of producing a polyurethane foam sheet, comprising the steps of introducing a liquid mixture, obtained by mixing together a heated and melted hot melt urethane prepolymer (A) containing isocyanate groups at molecular terminals, and a compound (B) containing at least 2 active hydrogen atom-containing groups, into a space between a first releasable substrate and a second releasable substrate to form a sheet-like product in a continuous manner, removing one of said first releasable substrate and said

second releasable substrate, and water foaming said sheet-like product by bringing said sheet-like product into direct contact with water vapor.

- A method of producing a polyurethane foam sheet according to any one of claim
   1 through claim 3, wherein said liquid mixture is produced by mixing together said
   heated and melted hot melt urethane prepolymer (A), said compound (B), and a
   urethanization catalyst (C).
- 5. A method of producing a polyurethane foam sheet according to any one of claim
  10 1 through claim 3, wherein said hot melt urethane prepolymer (A) is a hot melt urethane
  prepolymer (a-2) that also contains hydrolysable alkoxysilyl groups.
  - 6. A method of producing a polyurethane foam sheet according to any one of claim 1 through claim 3, wherein an isocyanate group content within said hot melt urethane prepolymer (A) is within a range from 0.5 to 10.0% by weight.

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- 7. A method of producing a polyurethane foam sheet according to any one of claim 1 through claim 3, wherein said hot melt urethane prepolymer (A) has a melt viscosity, measured at 125°C using a cone-plate viscometer, within a range from 100 to 100,000 mPa·s.
- 8. A method of producing a polyurethane foam sheet according to any one of claim 1 through claim 3, wherein a ratio of a weight equivalence of active hydrogen atom-containing groups within said compound (B) containing at least 2 active hydrogen atom-containing groups, relative to a weight equivalence of isocyanate groups within said hot

melt urethane prepolymer (A) [isocyanate group equivalence / active hydrogen atomcontaining group equivalence], is within a range from 1.5 to 20.0.

- 9. A method of producing a laminated sheet, comprising the steps of applying a liquid mixture, obtained by mixing together a heated and melted hot melt urethane prepolymer (A) containing isocyanate groups at molecular terminals, and a compound (B) containing at least 2 active hydrogen atom-containing groups, onto a substrate in a sheet-like manner, water foaming said liquid mixture by bringing said sheet-like liquid mixture into contact with water vapor to form a polyurethane foam sheet, and bonding a third substrate onto said polyurethane foam sheet.
  - 10. A method of producing a laminated sheet, comprising the steps of applying a liquid mixture, obtained by mixing together a heated and melted hot melt urethane prepolymer (A) containing isocyanate groups at molecular terminals, and a compound (B) containing at least 2 active hydrogen atom-containing groups, onto a substrate in a sheet-like manner, bonding a third substrate onto said sheet-like liquid mixture to form a laminate, and water foaming said liquid mixture by bringing said laminate into contact with water vapor.

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20 11. A method of producing a laminated sheet, comprising the steps of introducing a liquid mixture, obtained by mixing together a heated and melted hot melt urethane prepolymer (A) containing isocyanate groups at molecular terminals, and a compound (B) containing at least 2 active hydrogen atom-containing groups, into a space between a first releasable substrate and a second releasable substrate to form a sheet-like product in a continuous manner, removing one of said first releasable substrate and said second

releasable substrate, water foaming said sheet-like product by bringing an exposed surface of said sheet-like product, and/or a remaining first or second releasable substrate, into contact with water vapor to form a polyurethane foam sheet, and bonding a third substrate to said exposed surface of said polyurethane foam sheet from which said first or second releasable substrate has been removed.

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- 12. A method of producing a laminated sheet according to any one of claim 9 through claim 11, wherein said liquid mixture is produced by mixing together said heated and melted hot melt urethane prepolymer (A), said compound (B), and a urethanization catalyst (C).
- 13. A method of producing a laminated sheet according to any one of claim 9 through claim 11, wherein said hot melt urethane prepolymer (A) is a hot melt urethane prepolymer (a-2) that also contains hydrolysable alkoxysilyl groups.
- 14. A method of producing a laminated sheet according to any one of claim 9 through claim 11, wherein an isocyanate group content within said hot melt urethane prepolymer (A) is within a range from 0.5 to 10.0% by weight.
- 20 15. A method of producing a laminated sheet according to any one of claim 9 through claim 11, wherein a ratio of a weight equivalence of active hydrogen atom-containing groups within said compound (B) containing at least 2 active hydrogen atom-containing groups, relative to a weight equivalence of isocyanate groups within said urethane prepolymer (A) [isocyanate group equivalence / active hydrogen atom-containing group equivalence], is within a range from 1.5 to 20.0.